

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102120\
 Data File : VN064238.D
 Acq On : 22 Oct 2020 00:35
 Operator : JC/MD
 Sample : VN1021WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBL02

Quant Time: Oct 22 02:42:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102120W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 21 12:48:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	252048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	444889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	442837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	202140	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	192878	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
35) Dibromofluoromethane	7.54	113	146889	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
50) Toluene-d8	10.06	98	551204	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	12.37	95	243553	55.99	ug/l	0.00
Spiked Amount			Recovery	=	111.98%	

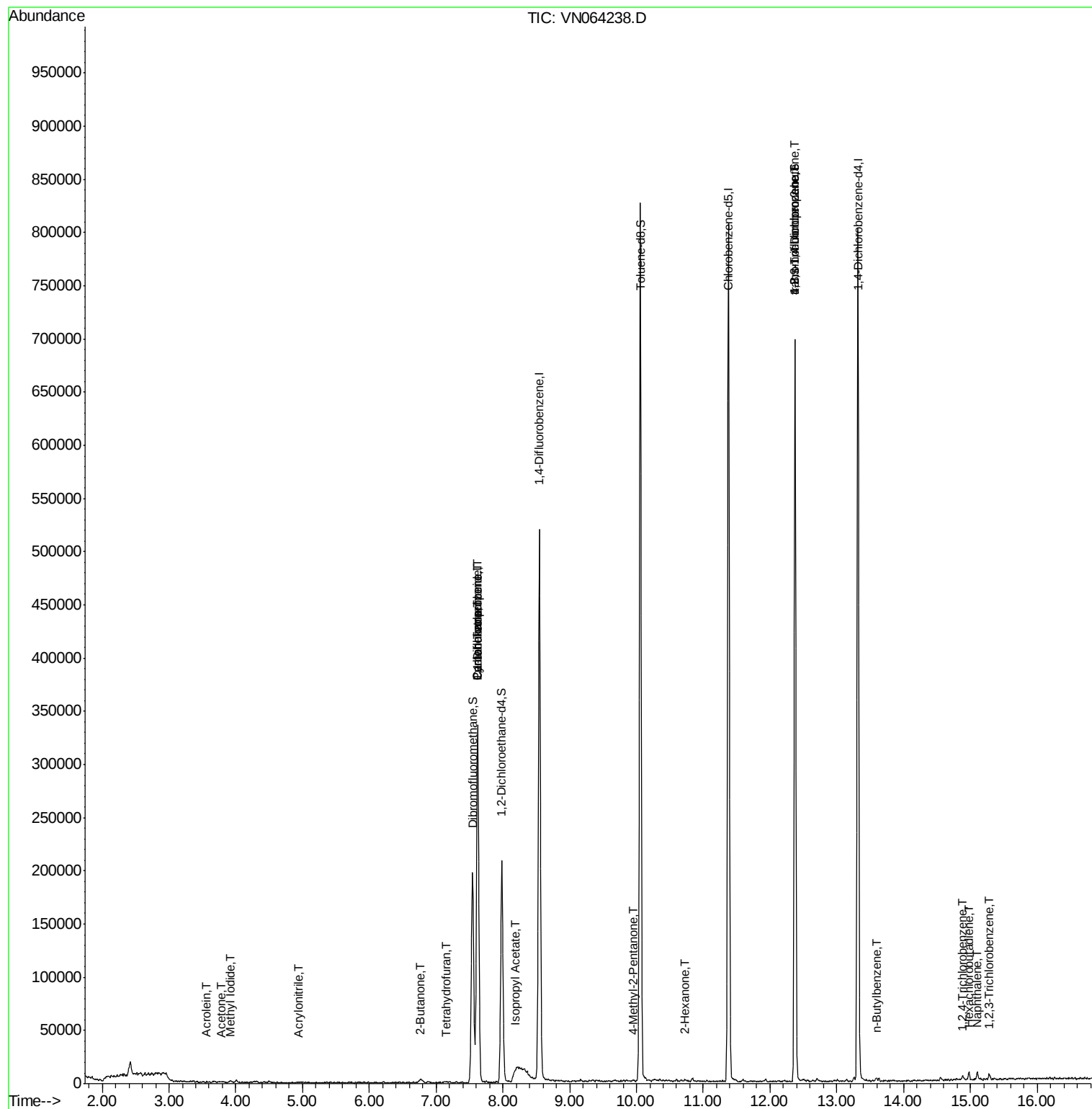
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.92	142	1682	0.482	ug/l #	61
13) Acrolein	3.56	56	64	0.203	ug/l #	1
15) Acrylonitrile	4.94	53	433	0.418	ug/l #	56
16) Acetone	3.78	43	939	0.877	ug/l #	49
25) 2-Butanone	6.76	43	595	0.350	ug/l #	51
29) Tetrahydrofuran	7.16	42	511	0.502	ug/l #	38
31) Cyclohexane	7.62	56	6505	1.466	ug/l #	32
36) 1,1-Dichloropropene	7.62	75	21480	4.843	ug/l #	49
38) Carbon Tetrachloride	7.62	117	27817	5.512	ug/l #	15
43) Isopropyl Acetate	8.18	43	8481	1.130	ug/l #	59
51) 4-Methyl-2-Pentanone	9.96	43	1775	0.443	ug/l #	39
59) 2-Hexanone	10.72	43	1482	0.506	ug/l #	64
76) 1,2,3-Trichloropropane	12.37	75	133181	31.253	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	133181	78.904	ug/l #	9
89) n-Butylbenzene	13.59	91	2256	0.205	ug/l	77
93) 1,2,4-Trichlorobenzene	14.88	180	1308	0.367	ug/l	74
94) Hexachlorobutadiene	14.98	225	1391	0.724	ug/l #	37
95) Naphthalene	15.11	128	6685	0.626	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.28	180	1845	0.523	ug/l	92

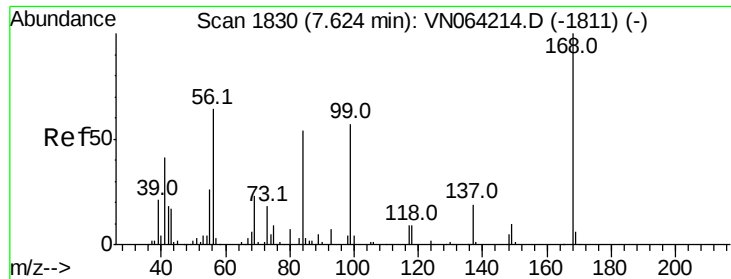
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 21 12:48:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

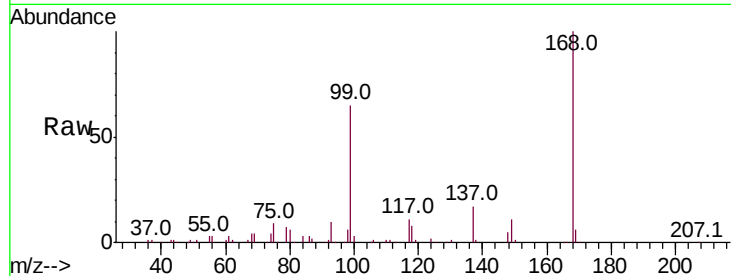
VN1021WBL02

Tot Ion:168 Resp: 252048

Ion Ratio Lower Upper

168 100

99 64.7 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

120000

100000

80000

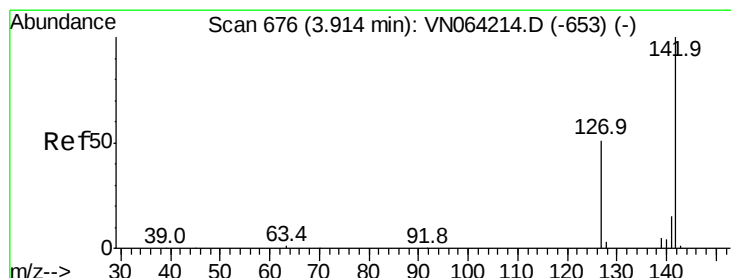
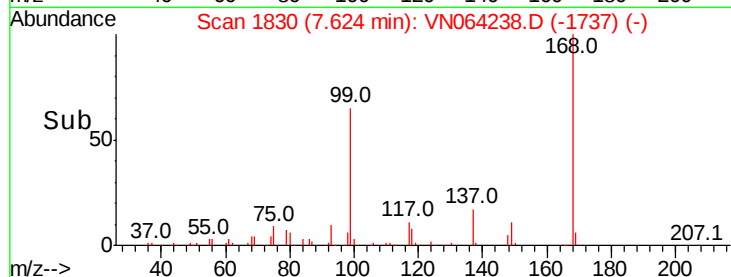
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#10

Methyl Iodide

Concen: 0.482 ug/l

RT: 3.92 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

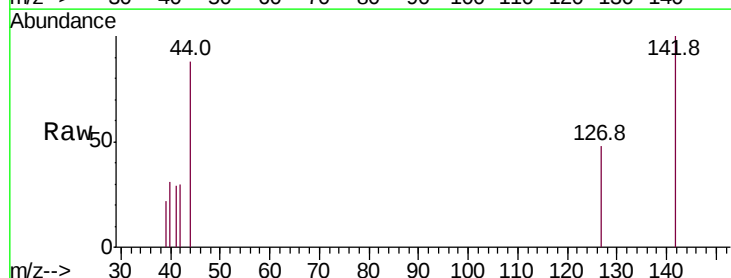
Tgt Ion:142 Resp: 1682

Ion Ratio Lower Upper

142 100

127 22.7 41.0 61.6#

141 1.8 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

1000

800

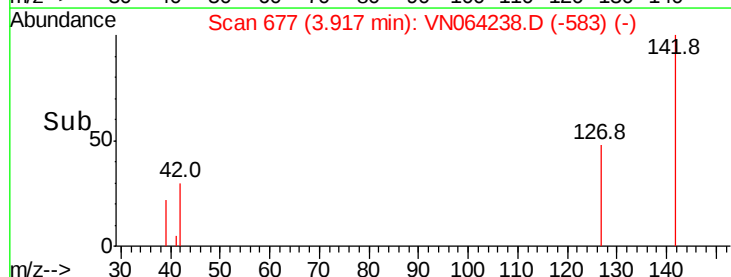
600

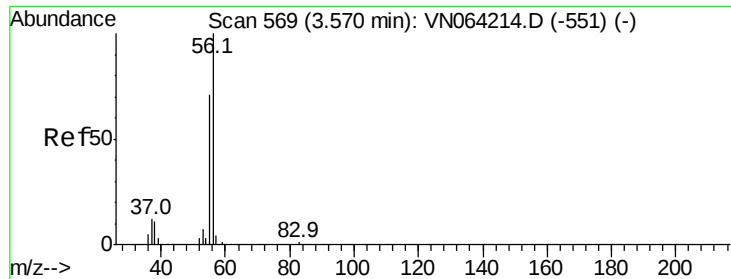
400

200

0

Time--> 3.85 3.90 3.95





#13

Acrolein

Concen: 0.203 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

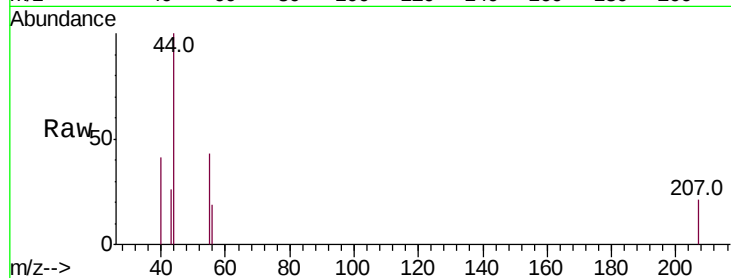
VN1021WBL02

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 482.8 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

400

300

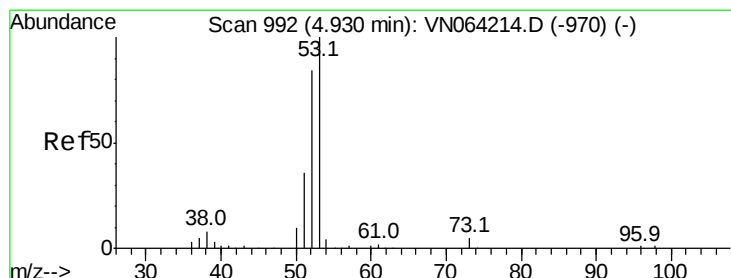
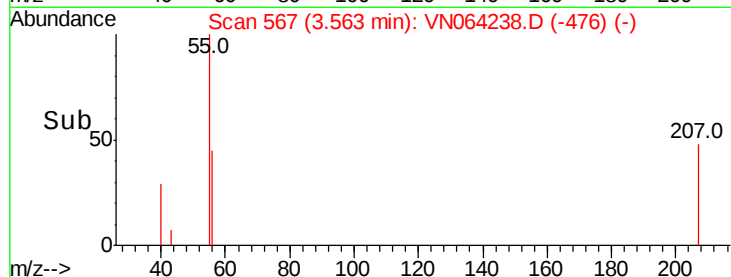
200

100

0

3.55 3.56 3.57

Time-->



#15

Acrylonitrile

Concen: 0.418 ug/l

RT: 4.94 min Scan# 996

Delta R.T. 0.01 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

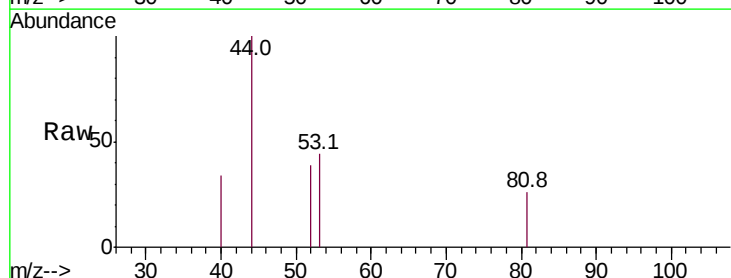
Tgt Ion: 53 Resp: 433

Ion Ratio Lower Upper

53 100

52 33.9 66.8 100.2#

51 25.6 30.7 46.1#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

400

300

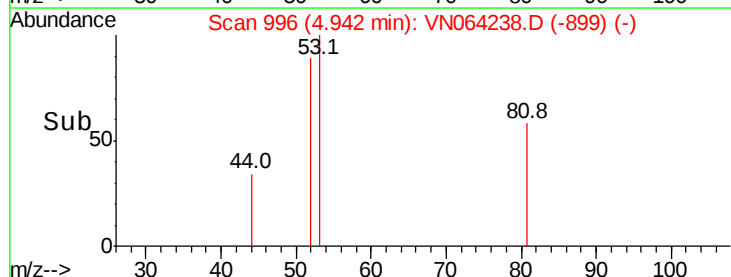
200

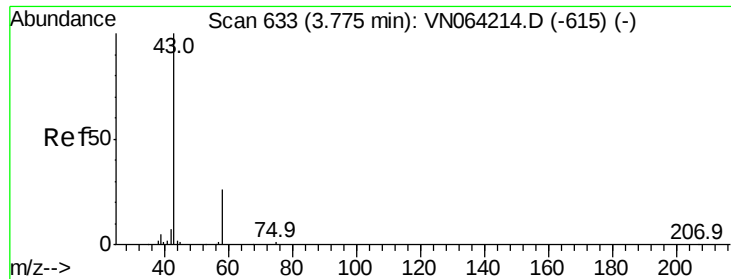
100

0

4.90 4.92 4.94 4.96

Time-->





#16

Acetone

Concen: 0.877 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

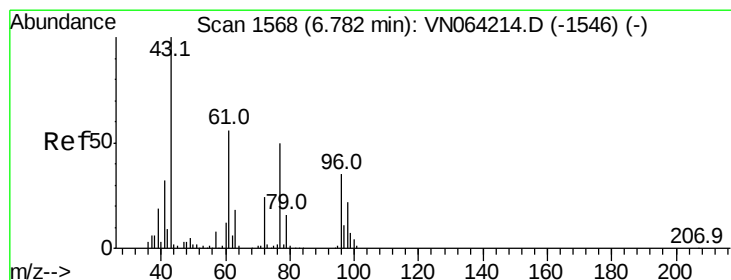
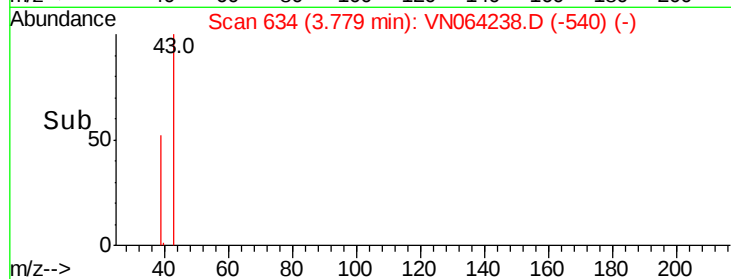
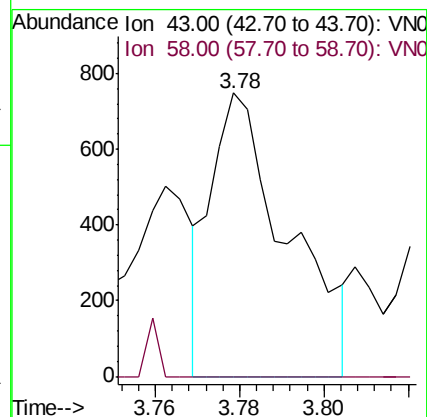
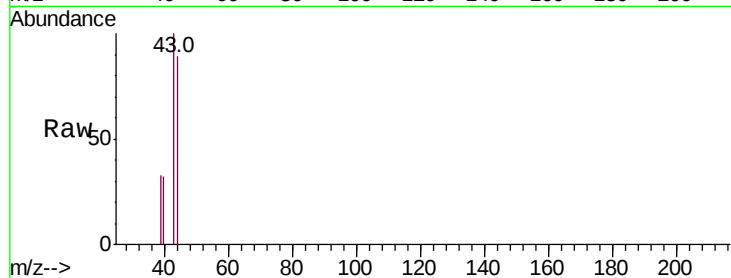
VN1021WBL02

Tot Ion: 43 Resp: 939

Ion Ratio Lower Upper

43 100

58 0.0 21.0 31.4#



#25

2-Butanone

Concen: 0.350 ug/l

RT: 6.76 min Scan# 1562

Delta R.T. -0.02 min

Lab File: VN064238.D

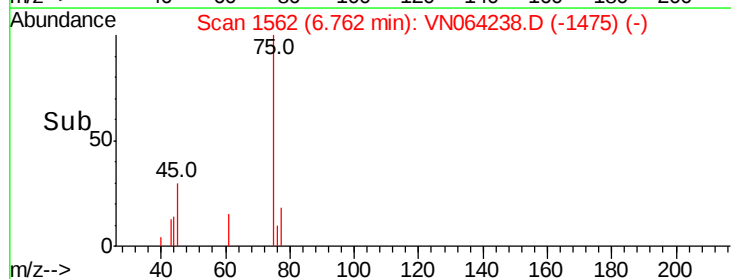
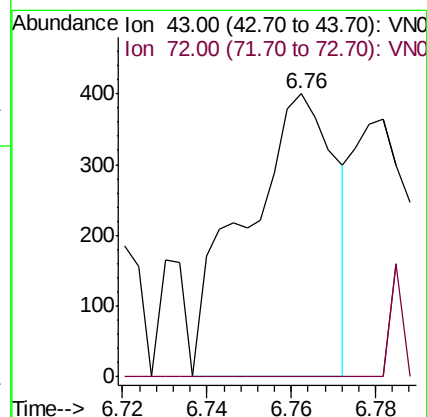
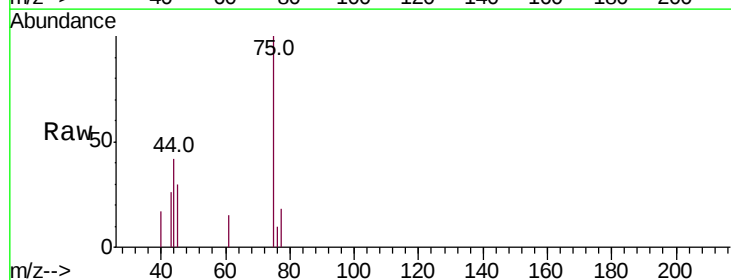
Acq: 22 Oct 2020 00:35

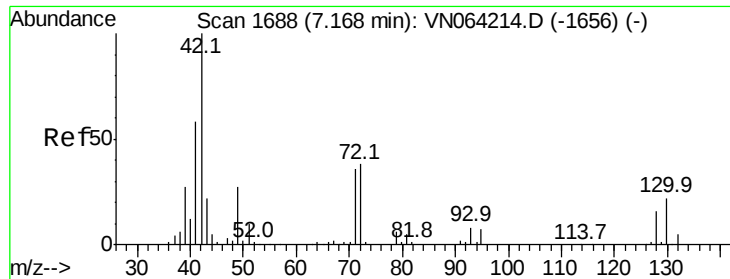
Tgt Ion: 43 Resp: 595

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.0#





#29

Tetrahydrofuran

Concen: 0.502 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

VN1021WBL02

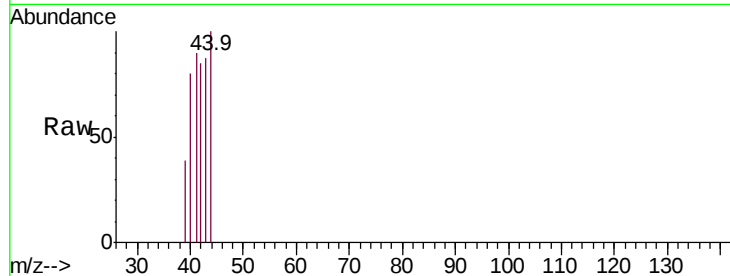
Tot Ion: 42 Resp: 511

Ion Ratio Lower Upper

42 100

72 0.0 30.8 46.2#

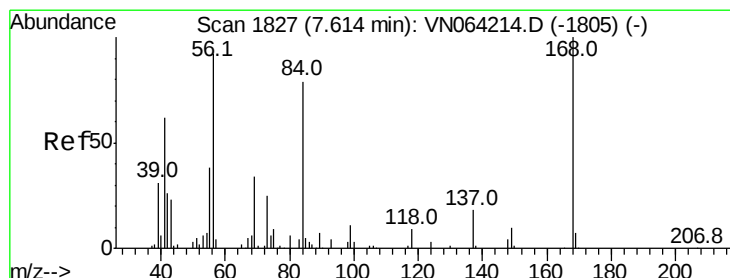
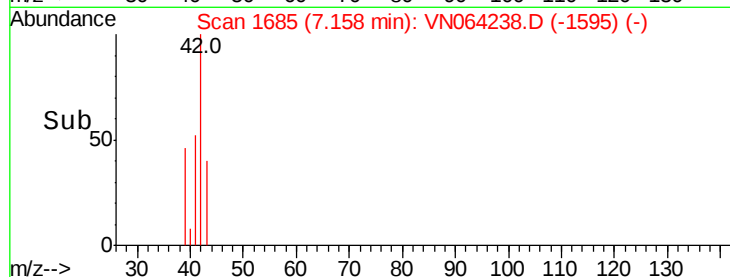
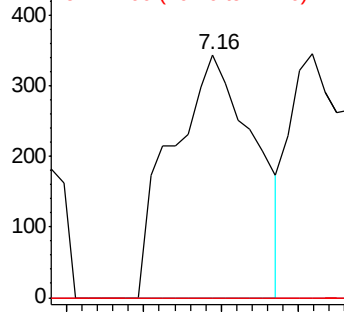
71 0.0 29.0 43.6#



Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC



#31

Cyclohexane

Concen: 1.466 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

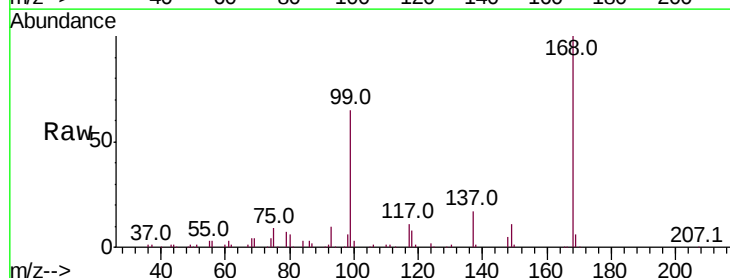
Tgt Ion: 56 Resp: 6505

Ion Ratio Lower Upper

56 100

69 155.7 29.8 44.6#

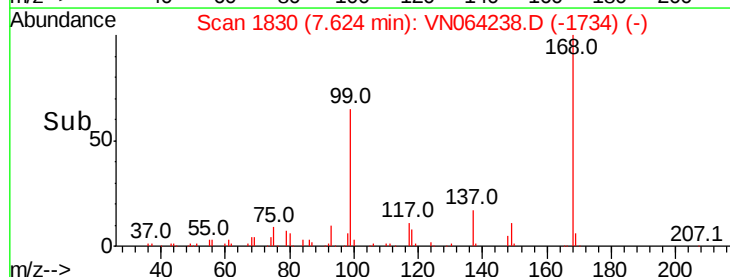
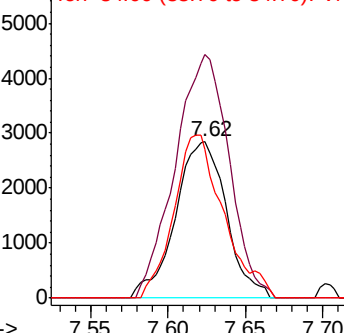
84 94.9 68.1 102.1

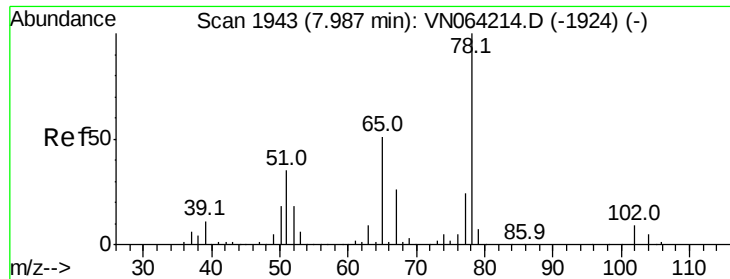


Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC

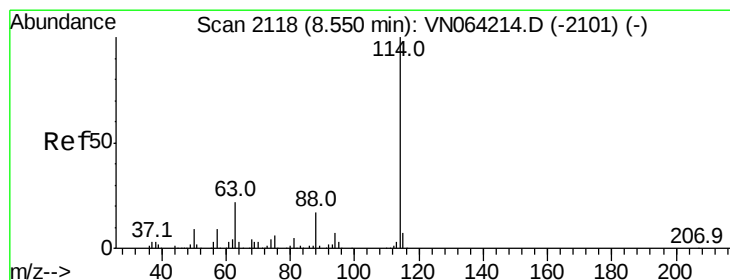
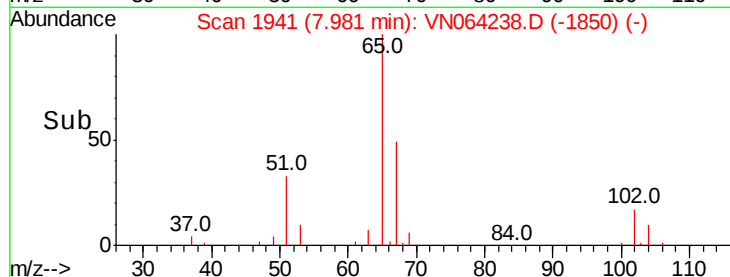
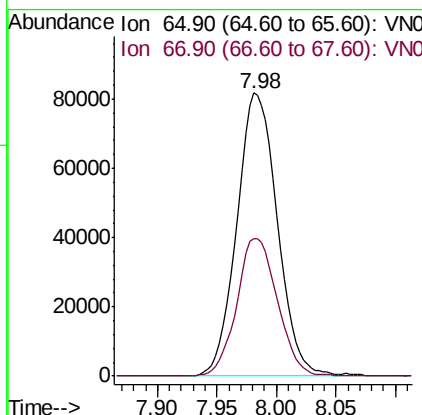
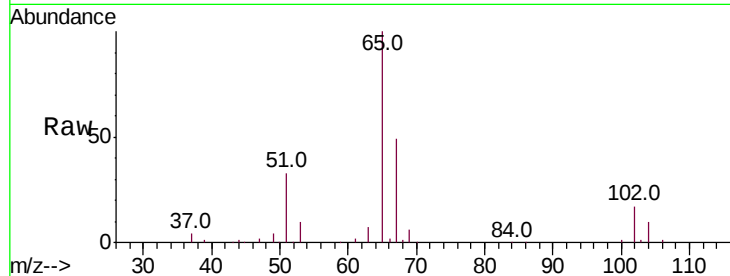




#33
 1,2-Dichloroethane-d4
 Concen: 51.529 ug/l
 RT: 7.98 min Scan# 1941
 Delta R.T. -0.01 min
 Lab File: VN064238.D
 Acq: 22 Oct 2020 00:35

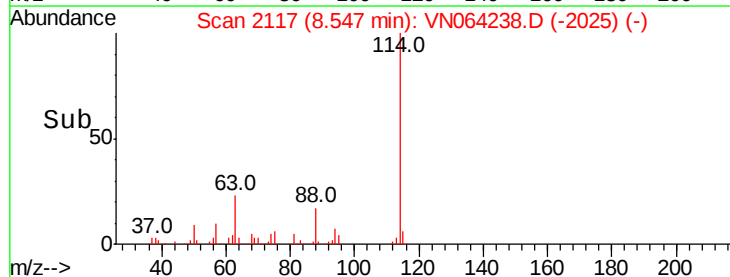
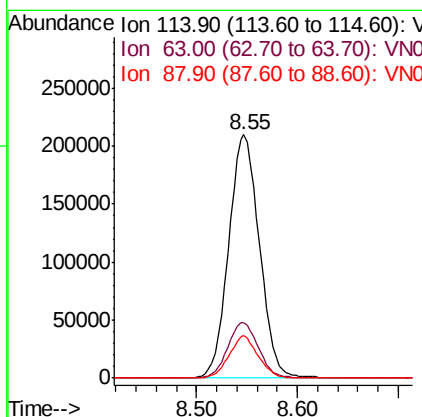
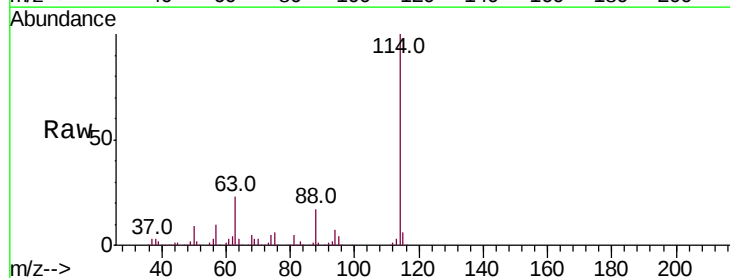
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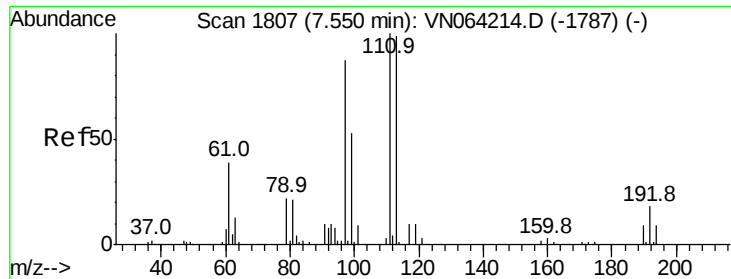
Tot Ion: 65 Resp: 192878
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VN064238.D
 Acq: 22 Oct 2020 00:35

Tgt Ion: 114 Resp: 444889
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.0
 88 17.3 0.0 34.2

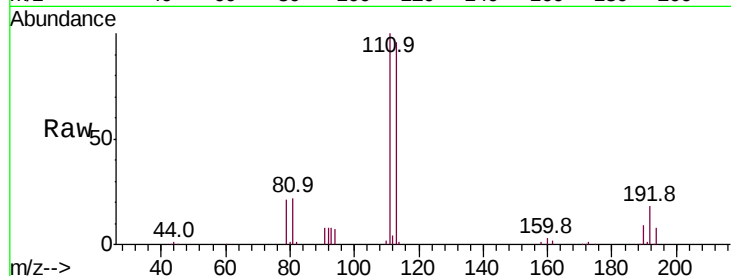




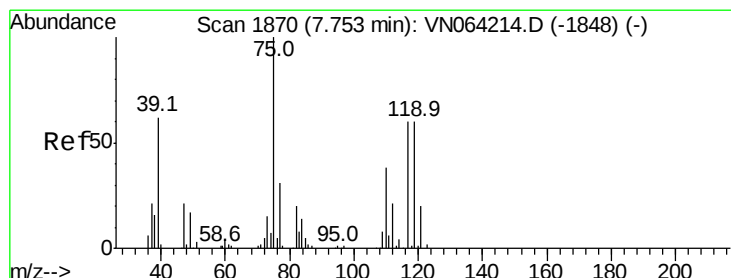
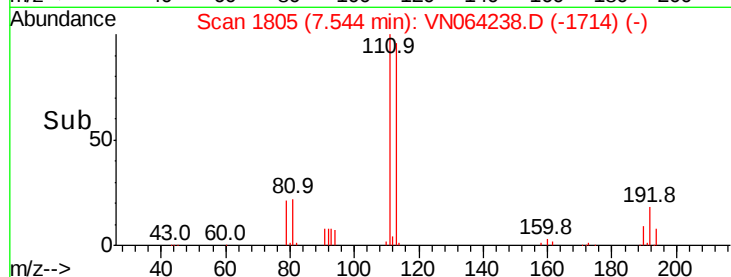
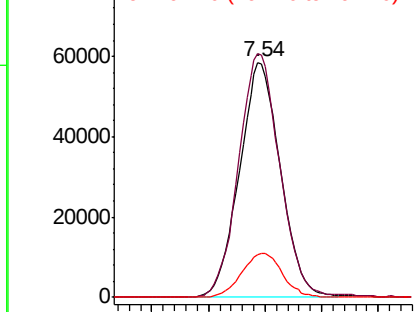
#35
 Dibromofluoromethane
 Concen: 49.661 ug/l
 RT: 7.54 min Scan# 1805
 Delta R.T. -0.01 min
 Lab File: VN064238.D
 Acq: 22 Oct 2020 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBL02

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	18.7	15.2	22.8

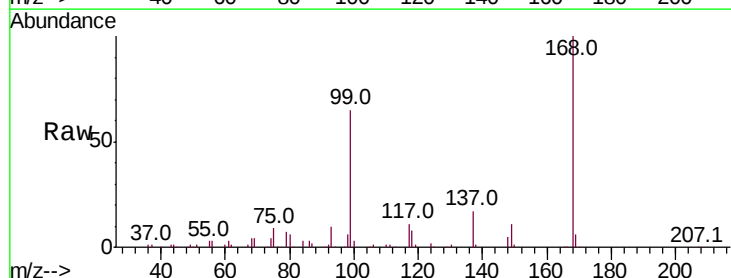


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

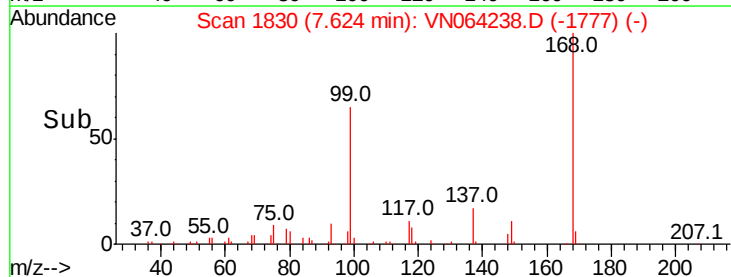
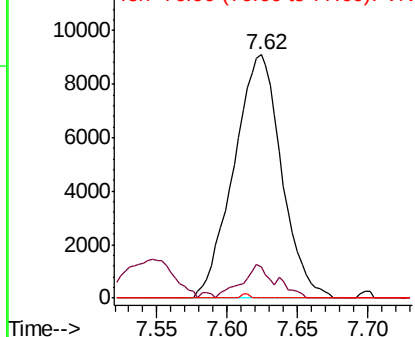


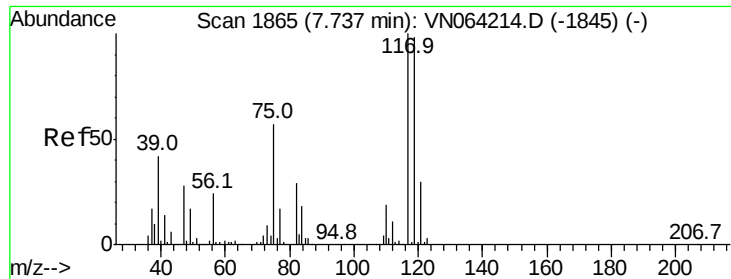
#36
 1,1-Dichloropropene
 Concen: 4.843 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064238.D
 Acq: 22 Oct 2020 00:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	17.2	51.6#
77	0.3	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.512 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

VN1021WBL02

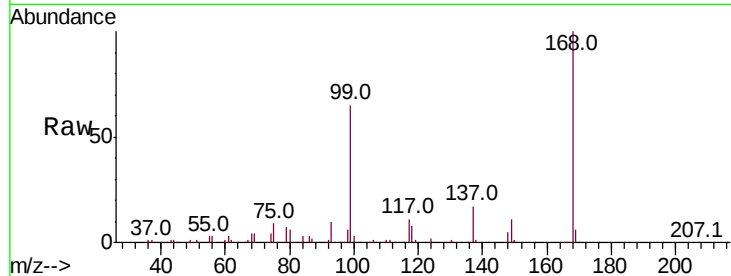
Tot Ion:117 Resp: 27817

Ion Ratio Lower Upper

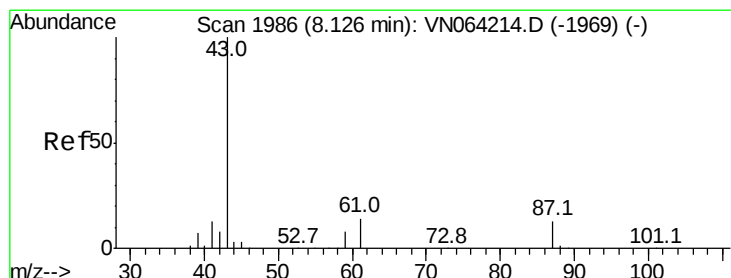
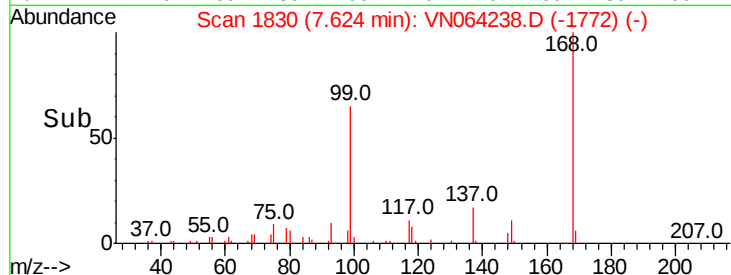
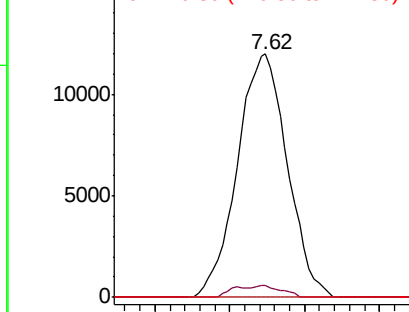
117 100

119 4.7 78.5 117.7#

121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.130 ug/l

RT: 8.18 min Scan# 2003

Delta R.T. 0.05 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

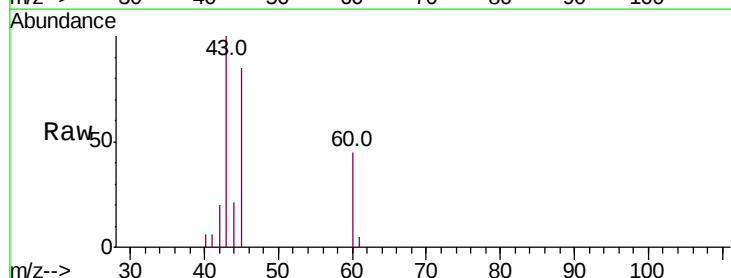
Tgt Ion: 43 Resp: 8481

Ion Ratio Lower Upper

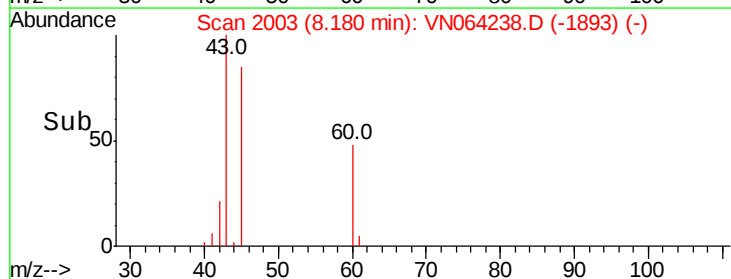
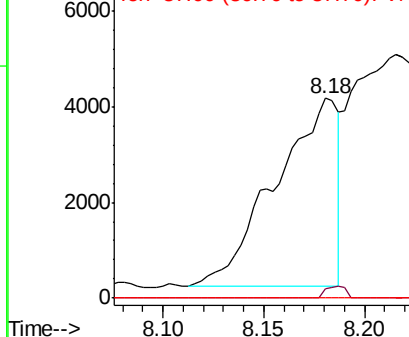
43 100

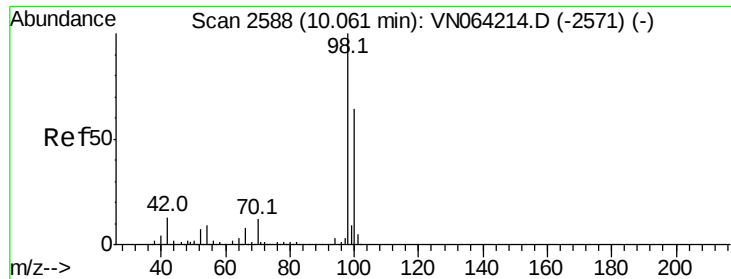
61 2.0 19.6 29.4#

87 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

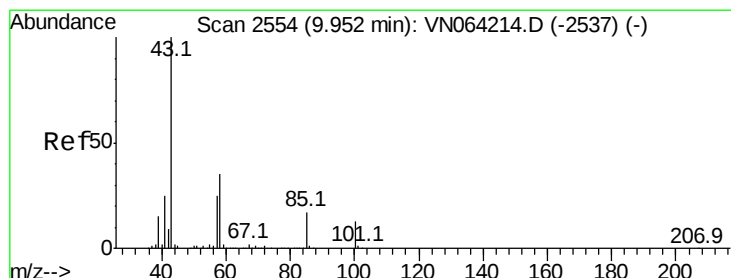
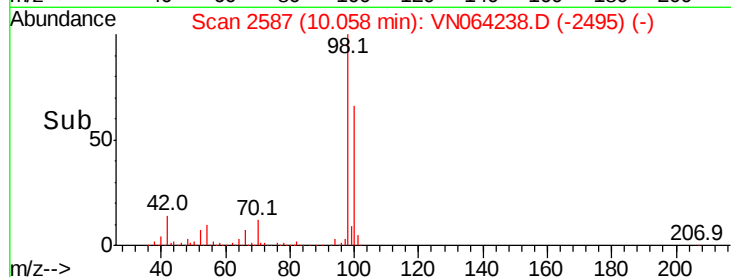
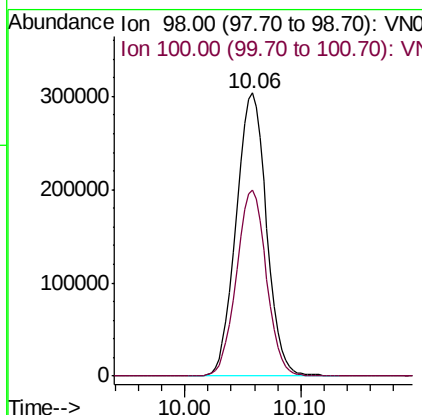
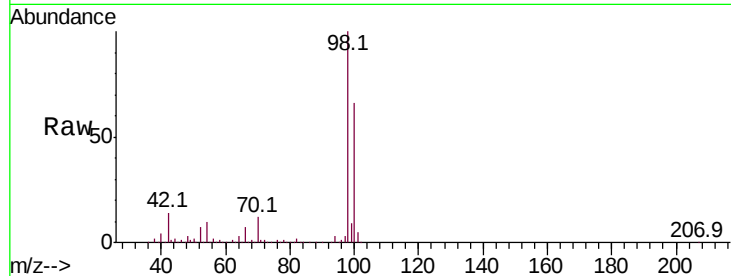




#50
Toluene-d8
Concen: 51.372 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

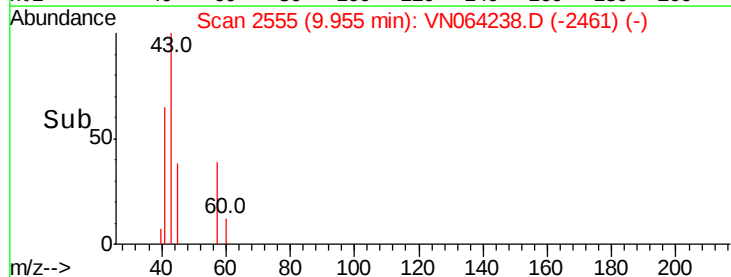
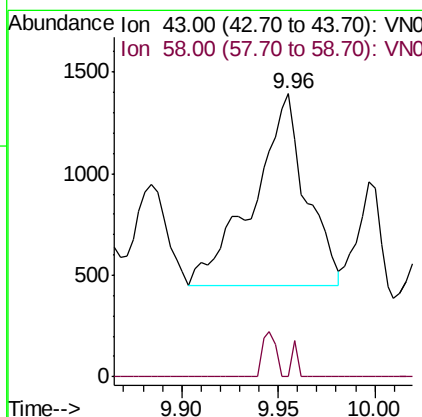
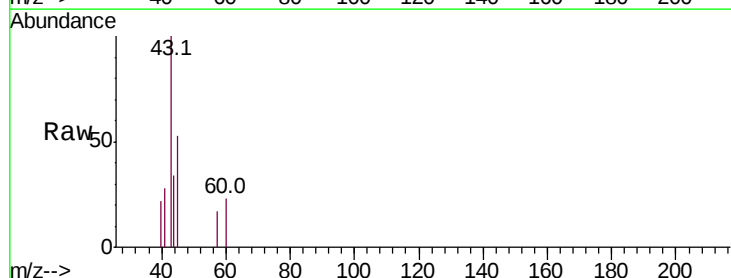
Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL02

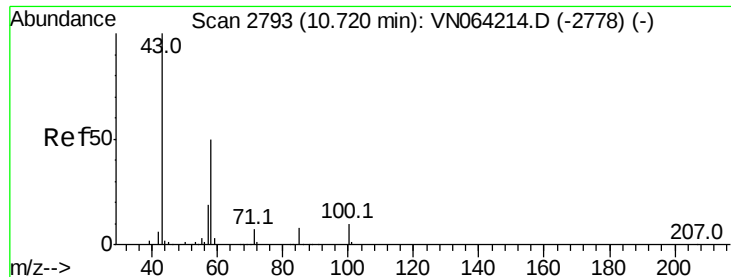
Tot Ion: 98 Resp: 551204
Ion Ratio Lower Upper
98 100
100 65.0 50.8 76.2



#51
4-Methyl-2-Pentanone
Concen: 0.443 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

Tgt Ion: 43 Resp: 1775
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#

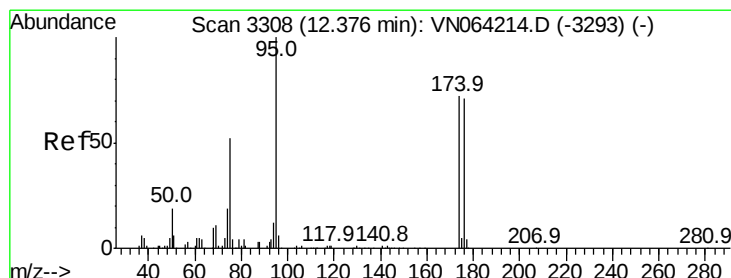
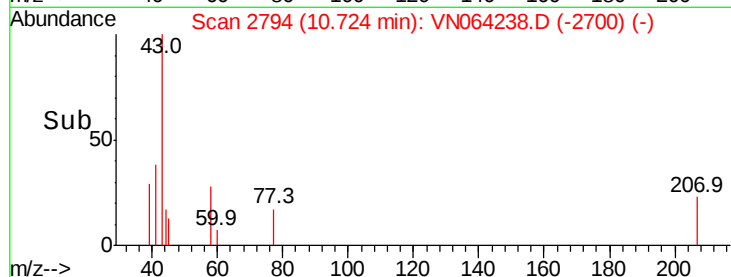
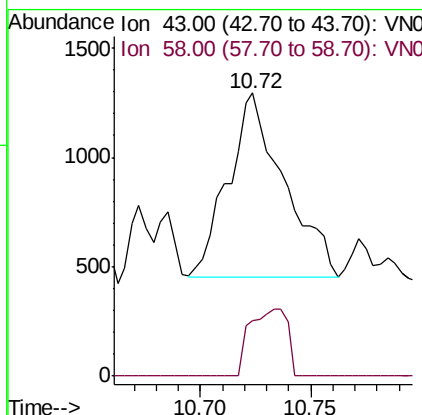
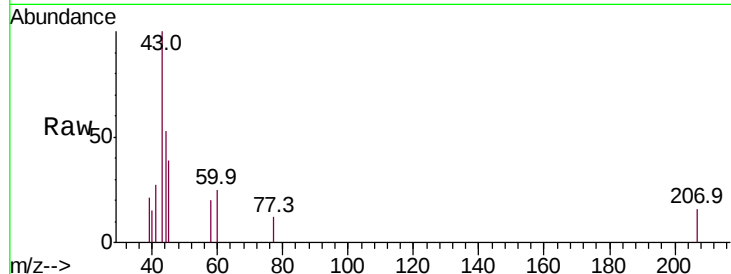




#59
2-Hexanone
Concen: 0.506 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

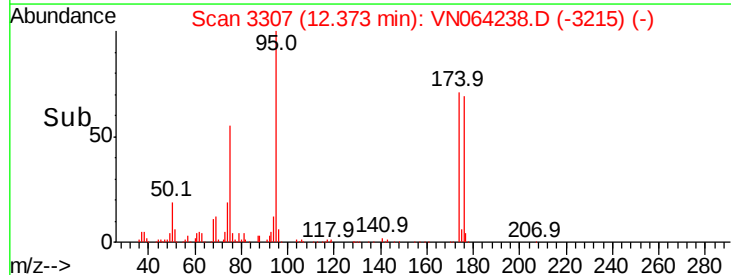
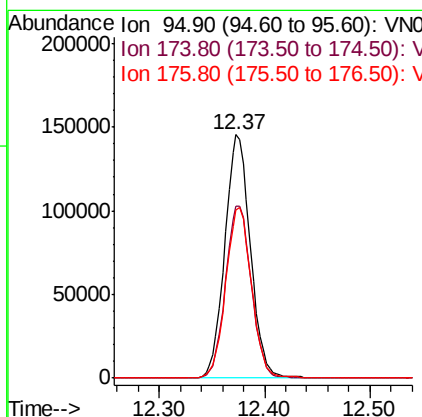
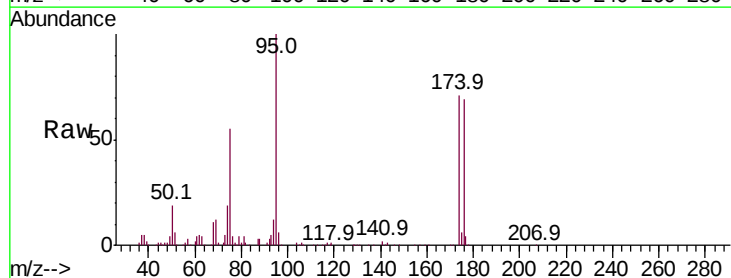
Instrument :
MSVOA_N
ClientSampled :
VN1021WBL02

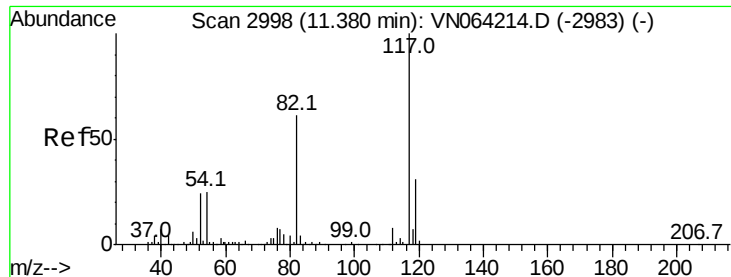
Tot Ion: 43 Resp: 1482
Ion Ratio Lower Upper
43 100
58 24.6 24.8 74.3#



#62
4-Bromofluorobenzene
Concen: 55.993 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

Tgt Ion: 95 Resp: 243553
Ion Ratio Lower Upper
95 100
174 71.7 0.0 144.4
176 70.3 0.0 139.2

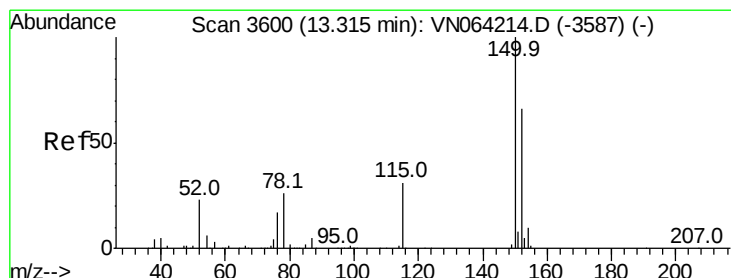
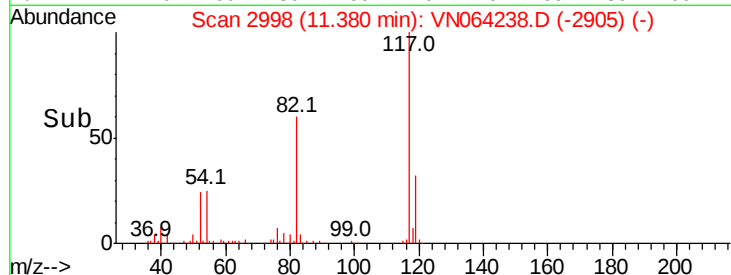
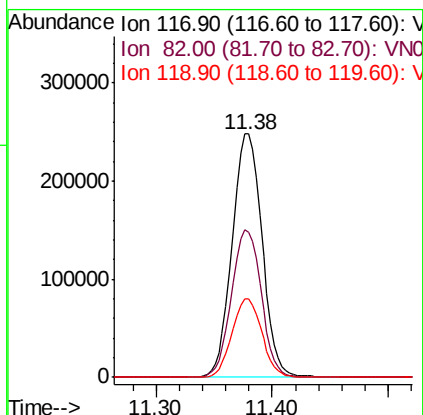
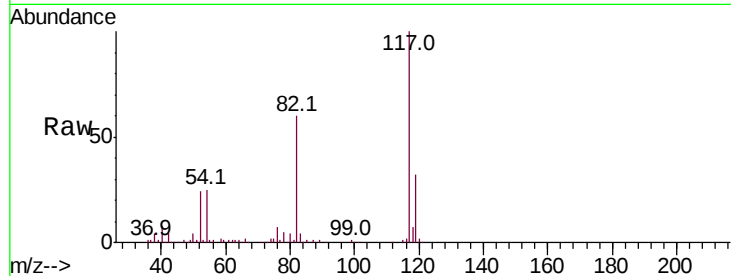




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

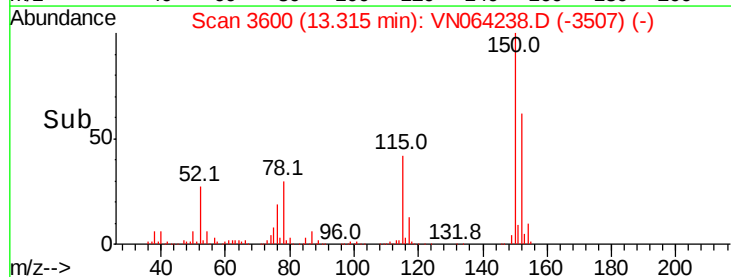
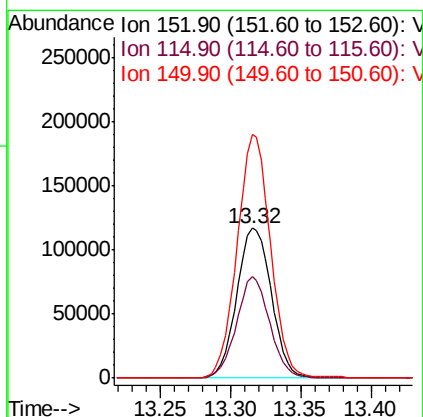
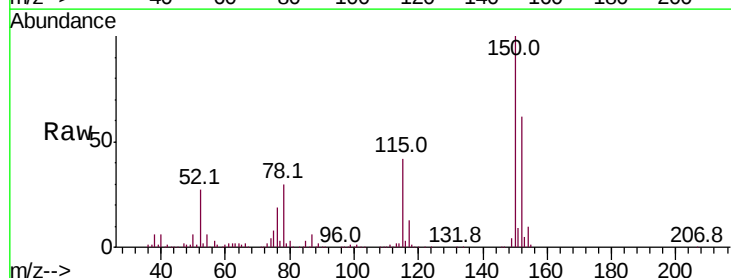
Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL02

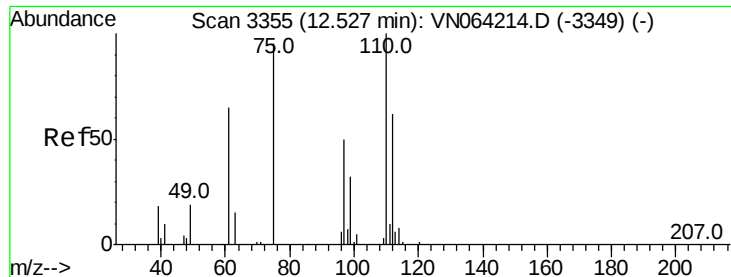
Tot Ion:117 Resp: 442837
Ion Ratio Lower Upper
117 100
82 59.8 48.8 73.2
119 32.3 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

Tgt Ion:152 Resp: 202140
Ion Ratio Lower Upper
152 100
115 64.6 32.0 96.2
150 156.3 0.0 356.6





#76

1,2,3-Trichloropropane

Concen: 31.253 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

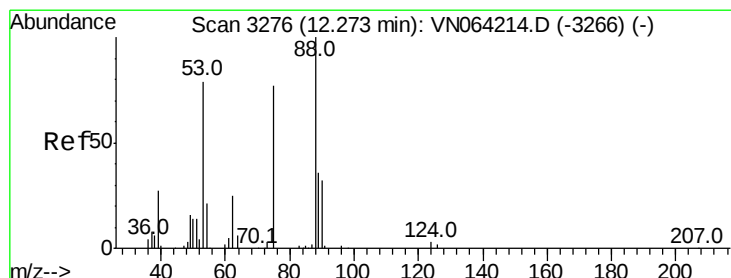
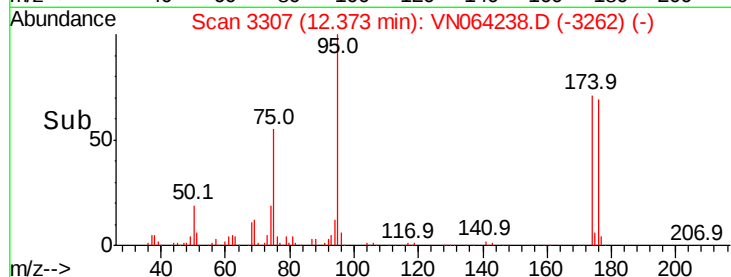
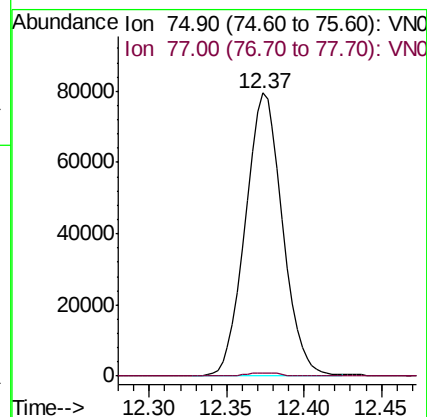
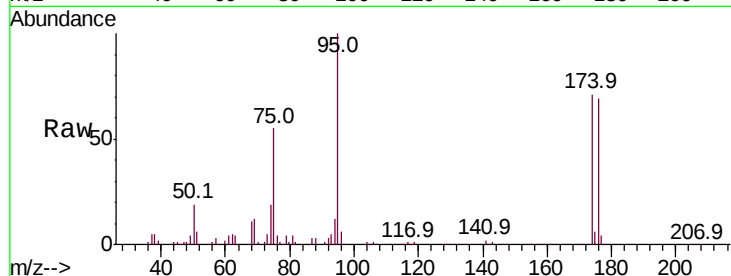
VN1021WBL02

Tot Ion: 75 Resp: 133181

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.904 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

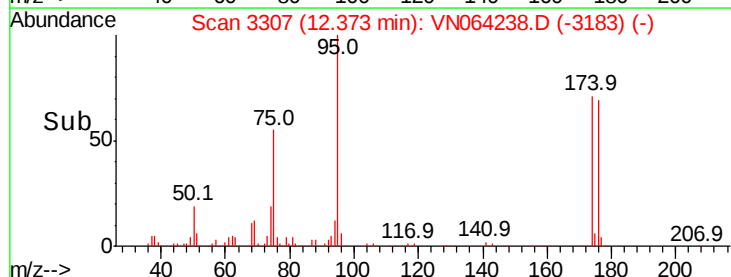
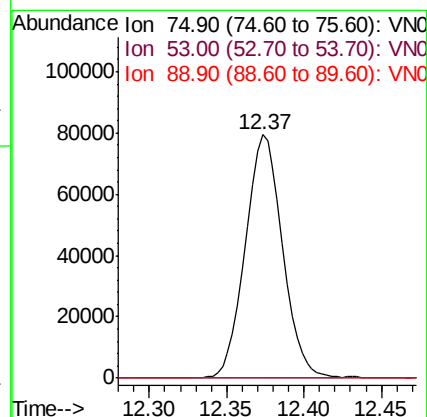
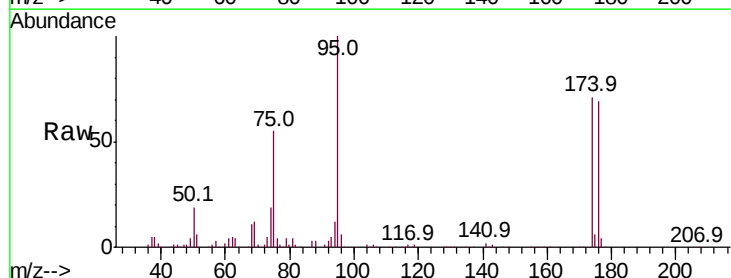
Tgt Ion: 75 Resp: 133181

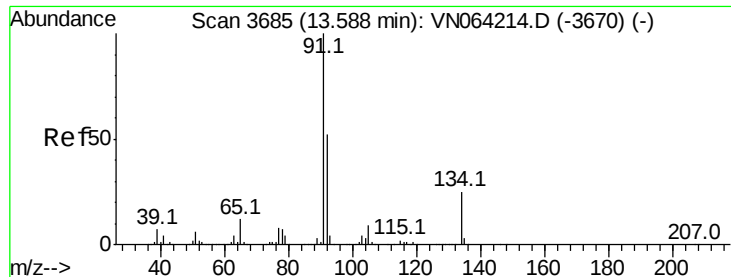
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 38.7 58.1#

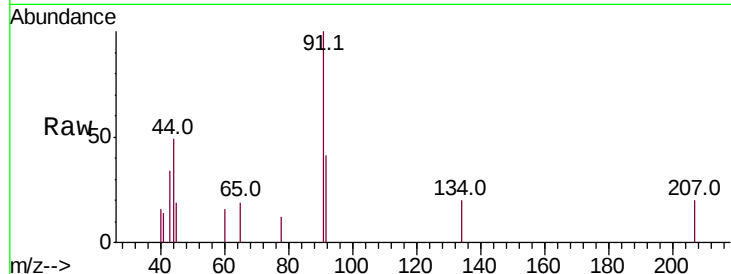




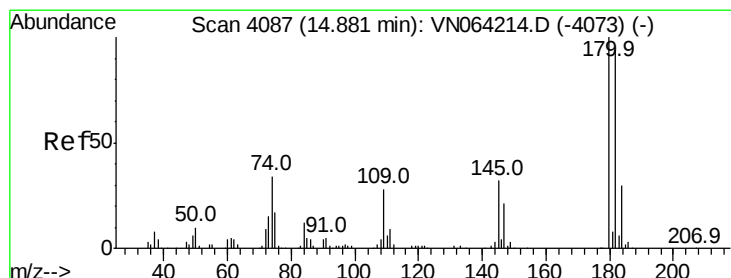
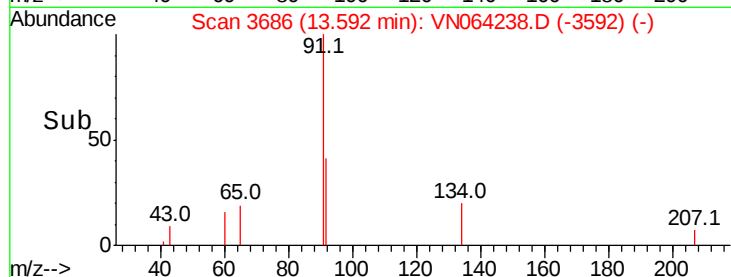
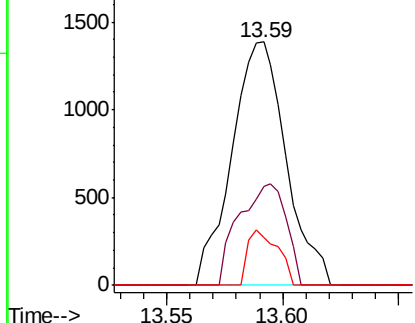
#89
n-Butylbenzene
Concen: 0.205 ug/l
RT: 13.59 min Scan# 3686
Delta R.T. 0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL02

Tot Ion: 91 Resp: 2256
Ion Ratio Lower Upper
91 100
92 36.1 25.7 77.0
134 12.4 12.3 36.8

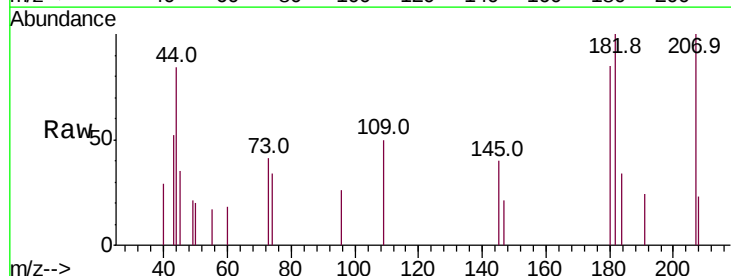


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

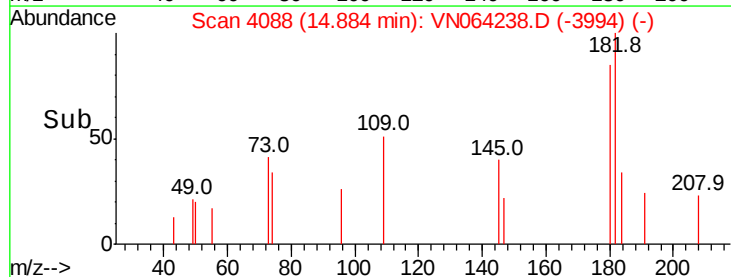
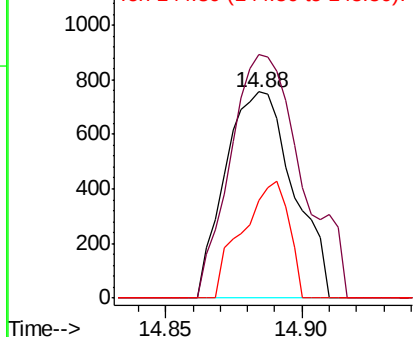


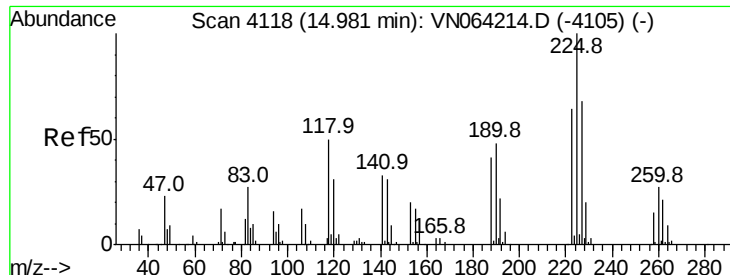
#93
1,2,4-Trichlorobenzene
Concen: 0.367 ug/l
RT: 14.88 min Scan# 4088
Delta R.T. 0.00 min
Lab File: VN064238.D
Acq: 22 Oct 2020 00:35

Tgt Ion: 180 Resp: 1308
Ion Ratio Lower Upper
180 100
182 123.9 46.9 140.7
145 38.5 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.724 ug/l

RT: 14.98 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

Instrument :

MSVOA_N

ClientSampleId :

VN1021WBL02

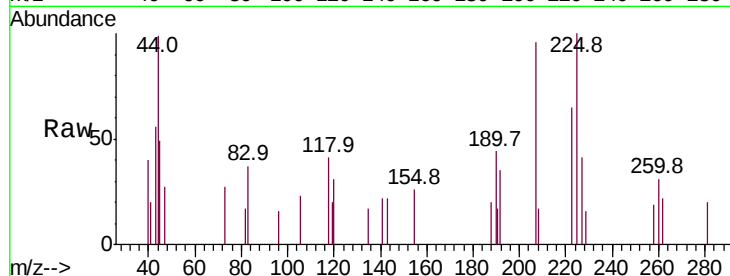
Tot Ion:225 Resp: 1391

Ion Ratio Lower Upper

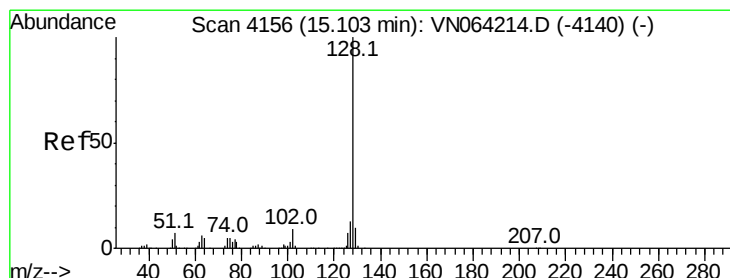
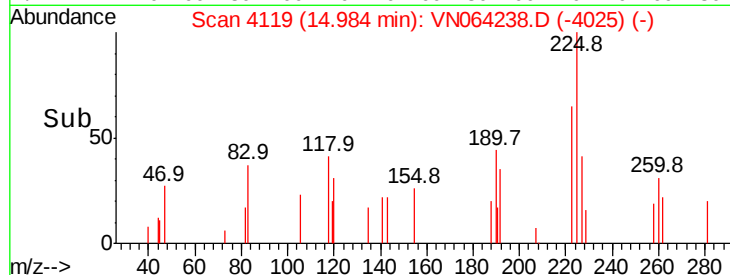
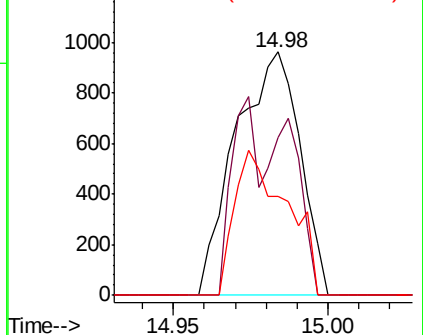
225 100

223 29.5 31.5 94.5#

227 0.0 32.1 96.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.626 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064238.D

Acq: 22 Oct 2020 00:35

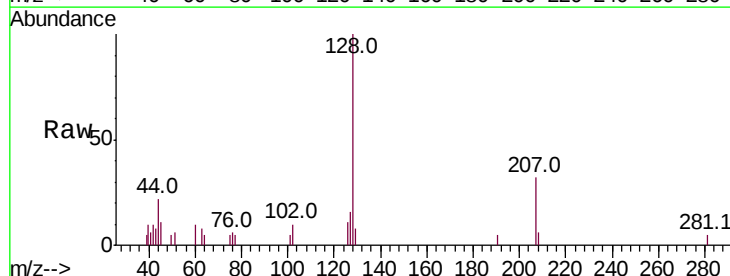
Tgt Ion:128 Resp: 6685

Ion Ratio Lower Upper

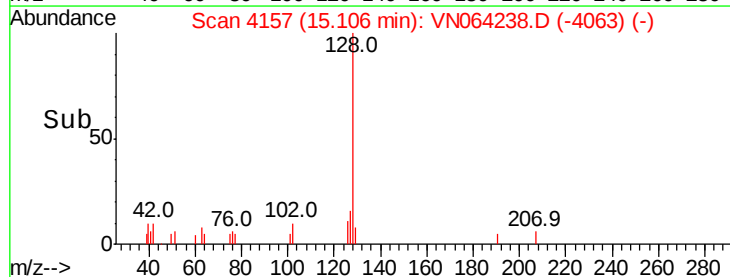
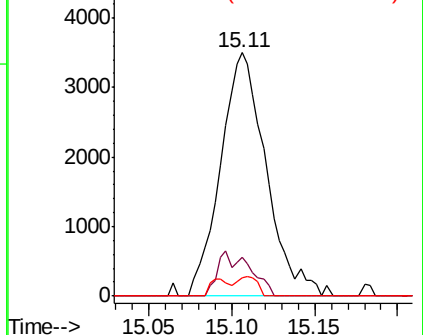
128 100

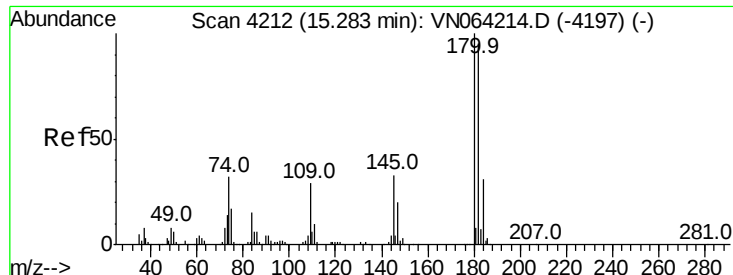
127 0.0 10.5 15.7#

129 3.6 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.523 ug/l
 RT: 15.28 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN064238.D
 Acq: 22 Oct 2020 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1021WBL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.6	48.0	144.2
145	30.7	17.1	51.3

